Special Issue

The Age of Big Data: AI Technology for Remote Sensing Image Processing & Application

Message from the Guest Editors

This issue aims to spotlight and address the emergent complexities and potential that big data brings to the field of remote sensing. The Special Issue will focus on an array of areas encompassing the latest research and advancements in deep learning, artificial intelligence, and machine learning, with specific attention towards their applications in remote sensing image analysis, image segmentation, semantic analysis, and change detection. Climate change impacts and disaster risk management will be another central theme. We look forward to exploring how remote sensing technologies can monitor and mitigate these global challenges through the study of land–atmosphere interactions. Water and ecosystem modelling will also be focal points. Contributions investigating hydrological modelling, the water balance of lakes and reservoirs, glacier modelling, and ecosystem modelling using remote sensing data are encouraged. We welcome submissions that are at the intersection of satellite remote sensing and big data analytics, bridging our understanding of the Earth's dynamic systems with the power of emerging computational techniques.

Guest Editors

Dr. Ligou Weng

Prof. Dr. Min Xia

Prof. Dr. Guojie Wang

Dr. Zheng Duan

Deadline for manuscript submissions

closed (31 March 2025)

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

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